

What is claimed is:

1. In an electronic device having sleep and active states and a digital wake-up signal generating device for switching the electronic device from sleep to active states, the improvement comprising:

    a printed circuit board with at least one ground conductive trace and at least two switch conductive traces;

    a contactor bridging the ground and the switch conductive traces and moveable in engagement between switch traces by movement of an actuator coupled to the contactor;

    resistor means coupled between the switch traces and producing a distinct analog voltage output when each switch trace is connected to ground by the contactor; and

    means for interrupting the one of the ground and the switch traces as the contactor moves between switch traces to change the state of the output trace.

2. The improvement of claim 1 wherein:

    the ground and the switch traces are circumferentially spaced apart.

3. The improvement of claim 1 wherein:

    the ground and the switch traces are linearly spaced apart.

4. The improvement of claim 1 wherein the means for interrupting one of the ground trace and the switch traces comprises:

    a non-conductive space for the contactor formed between two adjacent ground traces and two adjacent switch traces.

5. The improvement of claim 4 wherein:

    the interrupting means coincides with movement of the actuator coupled to the contactor between two distinct positions.

6. An electronic digital device having sleep and active states and a digital wake-up signal generating device for switching the electronic device from sleep to active states, the improvement comprising:

    a printed circuit board with at least one ground conductive trace and at least two switch conductive traces;

    a contactor bridging the ground and switch conductive traces and movable between switch traces by movement of an actuator;

    resistor means coupled between the switch traces and producing a distinct analog voltage output when connected to ground by the contactor; and

    means for detecting transition of the contactor between one of two adjacent switch traces and two adjacent ground traces, the detecting means generating an output on such detection.

7. A method for switching an electronic device having sleep and active states from a sleep state to an active state by generating a wake-up signal from a digital wake-up signal generating device, the method comprising the steps of:

    providing a printed circuit board with at least one ground conductive trace and at least two switch conductive traces;

    providing a contactor bridging the ground and the switch conductive traces and moveable in engagement between switch traces by movement of an actuator coupled to the contactor;

    providing a resistor means coupled between the switch traces and producing a distinct analog voltage output when each switch trace is connected to ground by the contactor; and

    interrupting one of the ground and the switch traces during movement of the contactor to change the state of the output.